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MAINE AGRICULTURAL EXPERIMENT STATION.

BULLETIN No. 25.

SECOND SERIES.

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Com. Feb.

## INSPECTION OF FERTILIZERS, 1896.

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The Maine Legislature enacted at the session of 1893, a new law for the regulation of the sale and analysis of commercial fertilizers.

This change of law was sought in order to accomplish two objects :

1. The providing of funds that can be legally used, sufficient to pay the expenses of a proper inspection.
2. A provision whereby information as to the composition of the goods offered for sale can be given to the would-be purchaser at an earlier date than has heretofore been possible.

This law makes the following requirement upon manufacturers, importers or dealers who propose to sell or offer for sale their goods in the States. These briefly stated are :

1. Marking the bags properly.\*
2. Filing annually a certificate with the director of the Station giving the manufacturer's or dealer's name, place of business, place of manufacture, name of brand of fertilizer and the guaranteed composition of the same.\*
3. Depositing annually, unless excused by the director under certain conditions, a sample of fertilizer, with an accompanying affidavit that this sample "corresponds within reasonable limits to the fertilizer which it represents." These samples are designated in this bulletin as "manufacturer's samples."\*
4. The annual payment of an analysis fee of twenty dollars for every brand of complete fertilizer licensed.†
5. All brands of which thirty tons or more are not sold are exempt from the last provision.

The law also imposes upon the Director of the Maine Agricultural Experiment Station certain duties which are :

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\* Notice—That requirements 1, 2 and 3 apply to all brands of fertilizers, whether thirty tons are sold or not.

† The law as originally enacted placed the license fee at fifteen dollars. The change to twenty dollars was made by the Legislature of 1895.

1. The issuing of licenses to such manufacturers as comply with the above named requirements.
2. The analysis of the samples deposited by the manufacturers.
3. The selection of samples in the open market of all brands of fertilizers sold or offered for sale in the state, with the subsequent analysis of the samples.
4. The publication of bulletins or reports, giving the results of the inspection.

In accordance with the foregoing requirements, nineteen companies representing seventy-seven brands of fertilizers have complied with the law, and the brands mentioned below can be sold legally in the state to the extent of thirty tons or more during the year 1896.

The analyses which appear here are those made from manufacturer's samples, which are deposited under affidavit that they are reasonably near in composition to the corresponding brands found in the market.

The figures which are given as the percentages of valuable ingredients guaranteed by the manufacturers are the minimum percentages of the guarantee. If, for instance, the guarantee is 2 to 3 per cent. of nitrogen, it is evident that the dealer can not be held to have agreed to furnish more than 2 per cent., and so this percentage is taken as actual guarantee. The figures under the head of "found" are those showing the actual composition of the samples deposited.

It will be seen that no estimated commercial valuation has been given to the various brands of goods here represented. The trade values for 1896 have not yet been agreed upon, but if any one wishes to calculate the valuation he can do so by using the prices adopted for 1895, which are as follows:

Nitrogen, . . . . .	18 1-2 cents.
Soluble phosphoric acid, . . . . .	6 "
Reverted " " . . . . .	5 1-2 "
Insoluble " " . . . . .	2 "
Potash, as muriate, . . . . .	4 1-2 "
Potash, as sulphate, . . . . .	5 "

The commercial valuation will be accurate enough as a means of comparison if the following rule is adopted:

*Multiply 18 1-2 cents by the percentage of nitrogen "found" and this product by twenty;*

*Multiply 6 cents by the percentage of available phosphoric acid found and the product by twenty;*

*Multiply 2 cents by the percentage of insoluble phosphoric acid found and the product by twenty;*

*Multiply 5 cents by the percentage of potash found and this product by twenty.*

*The sum of these four final products will be the commercial valuation on the basis taken.*

The valuation will be useful only as a means of determining whether one fertilizer has a selling price greater than another in proportion to some standard of valuation. *Such commercial valuations do not necessarily measure the relative value for use on a particular farm.*

#### MANUFACTURERS WHO HAVE COMPLIED WITH THE LAW FOR THE YEAR 1896.

Hiram Blanchard, Eastport, Me., two brands, manufactured at Eastport, Me.

Bowker Fertilizer Co., Boston, Mass., fifteen brands, manufactured at Elizabethport, N. J., or Boston, Mass.

Bradley Fertilizer Co., Boston, Mass., six brands, manufactured at North Weymouth, Mass.

Clark's Cove Fertilizer Co., Boston, Mass., five brands, manufactured at New York, N. Y.

Cleveland Dryer Co., Boston, Mass., three brands, manufactured at Cleveland, Ohio.

Crocker Fertilizer and Chemical Co., Buffalo, N. Y., four brands, manufactured at Buffalo, N. Y.

Cumberland Bone-Phosphate Co., Boston, Mass., three brands, manufactured at Boothbay Harbor, Me.

E. Frank Coe Co., New York, N. Y., seven brands, manufactured at Barren Island, N. Y.

F. S. Farrar & Co., Bangor, Me., two brands, manufactured at Bangor, Me.

D. H. Foster, Syracuse, N. Y., three brands, manufactured at New York, N. Y.

Great Eastern Fertilizer Co., Rutland, Vt., five brands, manufactured at New York, N. Y.

Lister's Agricultural Chemical Works, Newark, N. J., two brands, manufactured at Newark, N. J.

Nash Manufacturing Co., So. Brewer, Me., two brands, manufactured at So. Brewer, Me.

Pacific Guano Co., Boston, Mass., two brands, manufactured at Boston, Mass.

Quinnipiac Co., New York, N. Y., four brands, manufactured at New York, N. Y.

Russia Cement Co., Gloucester, Mass., three brands, manufactured at Gloucester, Mass.

Sagadahoc Fertilizer Co., Bowdoinham, Me., three brands, manufactured at Bowdoinham, Me.

Standard Fertilizer Co., four brands, manufactured at South Duxbury, Mass.

Williams & Clark Fertilizer Co., Boston, Mass., four brands, manufactured at Carteret, N. J.

In accordance with Section 2 of the law, the Director of the Station has excused all manufacturers from depositing samples of fertilizers for 1896 who certified that they were willing for the analyses of the manufacturers' samples in 1895\* to represent their goods for 1896. The affidavit made for 1895 therefore holds for 1896, as to the statement that the sample deposited "corresponds within reasonable limits to the fertilizer which it represents."

In the tables of analyses those numbers marked "S" represent new samples deposited for 1896. All other numbers represent samples deposited for 1895, whose composition is certified to hold for the year 1896, and the results of their analyses are therefore copied from Bulletin 18, published in 1895.

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\* See Bulletin No. 18, Mar. 9, 1895.



## DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1896.

Numbers marked "S" are brands of which new samples have been analyzed.

Station Number.	Brand.	Manufacturer.	Place of Business.
1257	Americus Phosphate.....	Williams & Clark Fertilizer Co. ....	Boston, Mass.
1259	Americus Potato and Cabbage Manure.....	" " " "	" "
1403	Bay State Bone Superphosphate..... S	E. Frank Coe Co. ....	New York, N. Y.
1217	Bay State Fertilizer.....	Clark's Cove Fertilizer Co. ....	Boston, Mass.
1218	Bay State Fertilizer, G. G. ....	" " " "	" "
1219	Bay State Fertilizer, Seeding Down.....	" " " "	" "
1404	Bay State High Grade Spec. Potato Fertilizer..... S	E. Frank Coe Co. ....	New York, N. Y.
1252	Bowker's Amm. Dissolved Bone.....	Bowker Fertilizer Co. ....	Boston, Mass.
1251	Bowker's Farm and Garden Phosphate .....	" " " "	" "
1257	Bowker's Fresh Ground Bone .....	" " " "	" "
1248	Bowker's Hill and Drill Phosphate.....	" " " "	" "
1389	Bowker's Potato Phosphate..... S	" " " "	" "
1249	Bowker's Potato and Vegetable Manure.....	" " " "	" "



Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.								Potash.		Station Number.
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available. Pound	% Available. Guaranteed.	% Total. Pound.	% Total. Guaranteed.	% Found.	% Guaranteed.		
1237	Americus Phosphate.....	12.32	2.80	2.47	7.85	1.65	.79	9.50	9.00	10.29	10.00	2.63	2.00	1237	
1239	Americus Potato and Cabbage Manure .....	.....	.....	2.06	.....	.....	.....	.....	8.00	.....	9.00	.....	3.00	1239	
1403	Bay State Bone Superphosphate.....S	18.12	2.03	2.00	7.19	1.78	3.70	8.97	9.00	12.67	11.00	1.79	1.85	1403	
1217	Bay State Fertilizer.....	12.48	2.72	2.47	8.10	1.57	.96	9.67	9.00	10.63	10.00	2.65	2.00	1217	
1218	Bay State Fertilizer G. G.....	12.51	2.36	1.85	7.38	2.34	1.81	9.72	8.50	11.53	10.00	2.62	2.00	1218	
1219	Bay State Fertilizer, Seeding Down .....	9.48	2.33	1.03	7.18	2.55	1.89	9.73	8.00	11.62	10.00	2.59	2.00	1219	
1404	Bay State High Grade Special Potato Fert.....S	8.14	2.20	2.40	6.78	2.25	2.93	9.03	8.00	11.96	9.00	5.05	6.00	1404	
1252	Bowker's Amm. Dissolved Bone .....	13.64	1.88	1.65	5.32	2.51	2.05	7.83	8.00	9.88	10.00	2.17	2.00	1252	
1251	Bowker's Farm and Garden Phosphate .....	13.24	1.86	1.64	5.27	3.01	1.79	8.28	8.00	10.07	10.00	2.21	2.00	1251	
1257	Bowker's Fresh Ground Bone.....	5.73	3.10	2.25	.....	.....	.....	.....	.....	17.49	18.00	.....	.....	1257	
1248	Bowker's Hill and Drill Phosphate .....	14.00	2.60	2.50	7.36	1.84	3.08	9.23	9.00	12.31	12.00	2.52	2.00	1248	
1389	Bowker's Potato Phosphate.....S	10.30	1.77	1.65	3.83	3.50	5.40	7.33	9.00	12.73	11.00	2.34	2.00	1389	
1249	Bowker's Potato and Vegetable Manure.....	10.86	2.54	2.50	3.79	2.54	4.31	6.33	8.00	10.64	10.00	4.42	4.00	1249	

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1896.—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1390	Bowker's Six Per Cent. Potato Fertilizer. .... S	Bowker Fertilizer Co. ....	Boston, Mass.
1250	Bowker's Square Brand Bone and Potash .....	" " .....	" "
1247	Bowker's Sure Crop Phosphate .....	" " .....	" "
1268	Bradley's Complete Manure for Potatoes and Vegetables.	Bradley Fertilizer Co. ....	" "
1282	Bradley's Corn Phosphate.....	" " .....	" "
1266	Bradley's Eureka Fertilizer.....	" " .....	" "
1269	Bradley's Potato Fertilizer.....	" " .....	" "
1267	Bradley's Potato Manure .....	" " .....	" "
1265	Bradley's X. L. Phosphate .....	" " .....	" "
1264	Cleveland Potato Phosphate.....	Cleveland Dryer Co. ....	" "
1262	Cleveland Seeding Down Fertilizer.....	" " .....	" "
1263	Cleveland Superphosphate .....	" " .....	" "
1270	Crocker's New Rival Atom. Superphosphate .....	Crocker Fertilizer and Chemical Co. ....	Buffalo, N. Y.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.							Potash.		Station Number.
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Available.	% Total.	% Total.	% Found.	% Guaranteed.	
1390	Bowker's Six Per Cent. Potato Fertilizer .....	10.00	1.01	.75	3.93	3.92	3.86	7.85	7.00	11.67	10.00	6.38	6.00	1390
1250	Bowker's Square Brand Bone and Potash .....	5.06	1.79	1.65	.....	6.40	7.19	6.40	5.00	13.59	10.00	2.21	2.00	1250
1247	Bowker's Sure Crop Phosphate .....	14.46	1.02	.75	4.09	3.75	4.07	7.84	8.00	11.91	10.00	1.16	1.00	1247
1268	Bradley's Complete Manure for Potatoes and Veg..	9.53	4.10	3.73	5.55	3.89	2.12	9.44	8.00	11.56	9.00	7.16	6.00	1268
1282	Bradley's Corn Phosphate.....	16.94	2.59	2.06	6.79	8.78	1.42	10.57	9.00	11.39	10.00	1.68	1.50	1282
1266	Bradley's Eureka Fertilizer.....	8.48	2.00	1.65	4.02	3.91	7.37	7.93	5.00	15.30	10.00	1.95	2.00	1266
1269	Bradley's Potato Fertilizer.....	14.96	2.11	2.06	8.39	2.28	.93	10.67	9.00	11.60	11.00	3.07	3.24	1269
1267	Bradley's Potato Manure.....	13.84	2.61	2.47	5.17	2.14	2.23	7.31	6.00	9.54	8.00	5.43	5.00	1267
1265	Bradley's X. L. Phosphate .....	15.09	2.70	2.47	2.55	3.58	1.48	11.13	9.00	12.61	11.00	2.27	2.00	1265
1264	Cleveland's Potato Phosphate .....	14.47	2.16	2.06	8.83	1.64	.97	10.47	8.00	11.44	10.00	3.21	3.00	1264
1262	Cleveland's Seeding Down Fertilizer .....	8.91	1.65	1.65	6.25	2.89	2.39	9.14	5.00	11.53	10.00	2.23	2.00	1262
1263	Cleveland's Superphosphate.....	12.25	2.39	2.06	7.38	2.51	1.92	9.89	9.00	11.81	11.00	2.71	2.00	1263
1270	Crocker's New Rival Amm. Superphosphate. ....	12.17	1.00	1.20	8.06	3.01	1.49	11.07	10.00	12.56	11.00	1.57	1.60	1270

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1896.—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1271	Crocker's Potato, Hop and Tobacco Phosphate .....	Crocker Fertilizer and Chemical Co....	Buffalo, N. Y.
1273	Crocker's Superior Rye and Oats Fertilizer .....	" " " " .....	" "
1272	Crocker's Wheat and Corn Phosphate .....	" " " " .....	" "
1394	Cumberland Potato Fertilizer .....	Cumberland Bone-Phosphate Co. ....	Portland, Me.
1395	Cumberland Seeding Down Fertilizer .....	" " " " .....	" "
1393	Cumberland Superphosphate .....	" " " " .....	" "
1242	Dirigo Fertilizer .....	Sagadahoc Fertilizer Co. ....	Bowdoinham, Me.
1399	E. Frank Coe's Amm. Bone Superphosphate .....	E. Frank Coe Co. ....	New York, N. Y.
1401	E. Frank Coe's Columbian Brand .....	" " " " .....	" "
1402	E. Frank Coe's High Grade Potato Fertilizer .....	" " " " .....	" "
1405	E. Frank Coe's Special Potato Fertilizer .....	" " " " .....	" "
1400	E. Frank Coe's Standard Grade .....	" " " " .....	" "
1410	Essex Complete Manure for Corn, Grain and Grass... S	Russia Cement Co. ....	Gloucester, Mass.

Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.						Potash.		Station Number.		
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Available.	% Total.	% Total.	% Guaranteed.		% Found.	% Guaranteed.
1271	Crocker's Potato, Hop and Tobacco Phosphate.....	10.55	2.04	2.00	7.78	2.56	1.07	10.34	10.00	11.41	11.00	3.65	3.25	1271	
1273	Crocker's Superior Rye and Oats Fertilizer.....	10.99	.86	.82	6.17	2.26	1.83	8.43	8.00	10.26	9.00	1.76	2.00	1273	
1272	Crocker's Wheat and Corn Phosphate.....	11.20	1.90	2.00	7.85	2.68	1.14	10.53	10.00	11.67	11.00	1.72	1.60	1272	
1394	Cumberland Potato Fertilizer .....	12.60	2.12	2.06	7.01	1.88	2.16	8.89	9.00	11.05	11.00	3.97	3.00	1394	
1395	Cumberland Seeding Down Fertilizer .....	14.20	1.10	1.23	5.82	1.98	2.11	7.80	8.00	9.91	12.00	2.93	2.00	1395	
1393	Cumberland Superphosphate.....	11.90	2.08	2.06	5.96	3.36	1.92	9.32	8.00	11.22	10.00	3.56	2.00	1393	
1242	Dirigo Fertilizer .....	11.19	1.82	.....	2.70	2.52	7.99	5.22	6.00	13.21	10.00	3.62	3.50	1242	
1399	E. Frank Coe's Amm. Bone Super.....	9.38	2.01	2.00	7.51	1.66	3.39	9.17	9.00	12.56	11.00	1.71	1.85	1399	
1401	E. Frank Coe's Columbian Brand.....	10.00	1.22	1.20	6.32	2.36	4.27	8.68	9.00	12.95	11.00	1.82	1.85	1401	
1402	E. Frank Coe's High Grade Potato Fert.....	8.24	2.13	2.40	6.64	2.04	3.17	8.68	8.00	11.85	9.00	5.14	6.00	1402	
1405	E. Frank Coe's Special Potato Fertilizer .....	7.03	1.95	1.65	7.43	1.82	4.20	9.25	9.00	13.45	11.00	4.58	3.50	1405	
1400	E. Frank Coe's Standard Grade.....	10.40	1.73	1.75	6.45	2.53	3.89	8.98	8.00	12.87	9.00	1.00	1.35	1400	
1410	Essex Complete Manure for Corn, Grain & Grass..	3.80	4.00	3.70	3.02	6.39	2.51	9.41	7.50	11.92	10.00	10.52	9.50	1410	

## DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1896.—Continued.

Station Number.	Brand.	Manufacturer.	Place of Business.
1411	Essex Complete Manure for Potatoes and Roots..... S	Russia Cement Co.....	Gloucester, Mass.
1412	Essex High Grade Superphosphate..... S	" " .....	" "
1276	Farrar's Fertilizer .....	" " .....	" "
1277	Farrar's Potato Manure .....	F. S. Farrar & Co.....	Bangor, Me.
1408	Farmer's Friend.....	" " .....	" "
1409	Fine Ground Bone.....	Nash Manufacturing Co.....	South Brewer, Me.
1386	Fish, Bone and Potash..... S	" " .....	" "
1387	Fish Scrap No. 2..... S	Hiram Blanchard .....	Eastport, Me.
1233	Great Eastern Corn Phosphate.....	" " .....	" "
1230	Great Eastern General Fertilizer.....	Great Eastern Fertilizer Co.....	Rutland, Vt.
1231	Great Eastern Grass and Oats Fertilizer.....	Great Eastern Fertilizer Co.....	" "
1232	Great Eastern Potato Manure .....	" " .....	" "
1383	Great Eastern Dissolved Bone .....	" " .....	" "



Station Number.	Brand.	Moisture.	Nitrogen.		Phosphoric Acid.								Potash.		Station Number.
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Found.	% Available.	% Guaranteed.	% Total.	% Found.	% Guaranteed.	
1411	Essex Complete Manure for Potatoes and Roots ..S	4.20	3.96	3.70	2.60	5.54	2.84	8.14	7.00	10.98	9.00	9.18	8.50	1411	
1412	Essex High Grade Superphosphate .....S	3.98	2.81	2.50	4.48	7.28	2.58	11.76	9.00	14.34	11.00	4.84	4.00	1412	
1276	Farrar's Fertilizer .....	8.98	2.56	2.50	3.24	8.26	4.25	11.50	9.50	15.75	12.00	1.63	2.00	1276	
1277	Farrar's Potato Manure.....	8.97	2.33	2.50	3.03	7.19	5.99	10.22	9.50	16.21	12.00	3.32	3.00	1277	
1408	Farmer's Friend .....	6.90	2.95	2.50	.....	1.57	8.41	1.57	.....	9.98	9.50	4.48	4.50	1408	
1409	Fine Ground Bone.....S	11.14	3.63	3.00	.....	.....	.....	.....	.....	18.01	18.00	.....	.....	1409	
1386	Fish, Bone and Potash .....	.....	3.60	4.00	.....	2.94	1.42	2.94	4.00	4.36	5.00	3.47	6.00	1386	
1387	Fish Scrap No. 2 .....	.....	4.44	4.00	.....	3.42	.84	3.42	4.00	4.26	.....	2.03	2.00	1387	
1233	Great Eastern Corn Phosphate .....	13.59	3.06	3.00	3.84	5.36	.74	9.20	8.00	9.94	8.00	3.43	2.00	1233	
1230	Great Eastern General Fertilizer.....	13.78	1.10	.80	.69	9.25	2.26	9.94	8.00	12.20	8.00	4.72	4.00	1230	
1231	Great Eastern Grass and Oats Fert.....	8.70	.....	.....	4.11	6.88	4.08	10.99	10.00	15.07	10.00	2.15	2.00	1231	
1232	Great Eastern Potato Manure.....	9.78	2.35	2.50	5.14	4.90	.68	10.04	8.00	10.72	8.00	5.71	4.00	1232	
1383	Great Eastern Dissolved Bone .....	10.20	.13	.....	2.58	13.34	2.53	15.92	.....	18.15	.....	.....	.....	1383	



DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1896.—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1216	Great Planet.....	Clark's Cove Fertilizer Co.....	Boston, Mass.
1238	High Grade Special .....	Williams & Clark Fertilizer Co.....	" "
1215	King Phillip Guano for Potatoes.....	Clark's Cove Fertilizer Co.....	" "
1406	Lister's Special Potato Manure. .... S	Lister's Agr. Chemical Works .....	Newark, N. J.
1407	Lister's Success Fertilizer.. .... S	" " " " .....	" "
1234	Nobsque Guano.....	Pacific Guano Co.....	Boston, Mass.
1396	Practical Potato Special..... S	D. H. Foster.....	Syracuse, N. Y.
1243	Quinnipiac Market Garden Manure.....	Quinnipiac Co.....	New York, N. Y.
1244	Quinnipiac Phosphate.....	" " " " .....	" "
1245	Quinnipiac Potato Manure .....	" " " " .....	" "
1246	Quinnipiac Seeding Down Manure.....	" " " " .....	" "
1397	Read's Standard..... S	D. H. Foster.....	Syracuse, N. Y.
1236	Royal Bone Phosphate .....	Williams & Clark Fertilizer Co.....	Boston, Mass.

Station Number.	Brand.	Moisture.	Nitrogen.				Phosphoric Acid.						Potash.		Station Number.
			% Found.	% Guaranteed.	% Soluble.	% Reverted.	% Insoluble.	% Available.	% Available.	% Total.	% Total.	% Guaranteed.	% Found.	% Guaranteed.	
1216	Great Planet.....	.....	.....	3.30	.....	.....	.....	.....	8.00	.....	.....	9.00	.....	7.00	1216
1238	High Grade Special.....	9.61	3.97	3.70	7.10	2.50	.45	9.60	7.00	10.05	8.00	8.00	7.26	7.00	1238
1215	King Phillip Guano for Potatoes.....	11.52	1.79	1.23	6.52	1.74	1.05	8.26	6.50	9.31	8.00	8.00	8.66	3.00	1215
1406	Lister's Special Potato Manure.....	11.53	1.94	1.65	8.21	.99	3.02	9.20	3.00	12.22	8.00	8.00	2.95	2.00	1406
1407	Lister's Success Fertilizer.....	10.18	1.62	1.24	7.93	1.45	2.74	9.38	2.00	12.12	9.50	9.50	2.20	1.50	1407
1234	Nobsque Guano.....	12.24	1.23	1.15	6.23	2.68	2.44	8.91	9.00	11.35	9.00	9.00	2.25	2.00	1234
1396	Practical Potato Special.....	9.30	1.20	.83	3.39	1.55	.54	4.94	4.00	5.48	4.50	4.50	8.35	8.00	1396
1243	Quinnipiac Market Garden Manure.....	9.79	3.89	3.30	7.38	2.05	.65	9.43	8.00	10.08	9.00	9.00	7.47	7.00	1243
1244	Quinnipiac Phosphate.....	12.26	2.74	2.47	7.91	1.47	1.11	9.38	9.00	10.49	10.00	10.00	2.72	2.00	1244
1245	Quinnipiac Potato Manure.....	9.34	2.71	2.47	5.85	1.82	2.26	7.67	6.00	9.93	7.00	7.00	5.80	5.00	1245
1246	Quinnipiac Seeding Down Manure.....	12.86	1.23	.82	6.59	2.87	2.26	9.46	9.00	11.72	10.00	10.00	2.26	2.00	1246
1397	Read's Standard.....	13.05	1.15	.83	6.50	1.73	.92	8.23	8.00	9.15	9.00	9.00	4.33	4.00	1397
1236	Royal Bone Phosphate.....	12.53	1.26	1.03	6.20	3.11	2.23	9.31	7.00	11.54	8.00	8.00	2.26	2.00	1236

DESCRIPTIVE LIST OF FERTILIZERS LICENSED AND ANALYZED FOR 1896.—*Continued.*

Station Number.	Brand.	Manufacturer.	Place of Business.
1241	Sagadahoc Hill and Drill .....	Sagadahoc Fertilizer Co.....	Bowdoinham, Me.
1235	Soluble Pacific Guano.....	Pacific Guano Co.....	Boston, Mass.
1414	Standard A. Brand .....	Standard Fertilizer Co.....	Boston, Mass.
1222	Standard Complete Manure .....	" " .....	" "
1223	Standard Fertilizer .....	" " .....	" "
1221	Standard Guano .....	" " .....	" "
1255	Stockbridge Corn and Grain Manure .....	Bowker Fertilizer Co.....	" "
1388	Stockbridge Potato and Vegetable Manure.....	" " .....	" "
1391	Stockbridge Seeding Down .....	" " .....	" "
1392	Stockbridge Top Dressing Manure.....	" " .....	" "
1398	Sure Catch .....	D. H. Foster.....	Syracuse, N. Y.

Station Number.	Brand.	Nitrogen.		Phosphoric Acid.						Potash.		Station Number.			
		Moisture.		Guaranteed.		Soluble.		% Reverted.	% Insoluble.	Available.			% Total.	Guaranteed.	
		% Found.	%	%	%	%	%	%	%	%	%		%	%	%
1241	Sagadahoc Hill and Drill	11.79	2.22	2.50	6.65	2.59	1.60	9.24	8.00	10.84	10.00	4.53	4.50	1241	
1235	Soluble Pacific Guano	12.30	2.37	2.27	7.33	2.42	1.85	9.75	8.50	11.60	10.50	2.61	2.00	1235	
1414	Standard A. Brand	11.60	1.33	.82	4.84	3.08	1.96	7.92	7.00	9.88	9.00	1.71	1.00	1414	
1222	Standard Complete Manure	11.24	3.56	3.30	5.49	4.21	2.38	9.70	8.00	12.08	9.00	6.94	7.00	1222	
1223	Standard Fertilizer	12.46	2.44	2.00	7.36	2.64	1.96	10.00	8.00	11.96	10.00	2.67	2.00	1223	
1221	Standard Guano	11.32	1.75	1.23	6.59	2.02	1.09	8.61	6.50	9.70	8.00	3.69	3.00	1221	
1255	Stockbridge Corn and Grain Manure	9.38	3.21	3.25	6.31	1.62	2.69	7.93	8.00	10.62	9.00	5.23	4.25	1255	
1388	Stockbridge Potato and Vegetable Manure	7.60	3.43	3.25	3.12	2.13	4.26	5.25	6.00	9.49	7.00	9.76	10.00	1388	
1391	Stockbridge Seeding Down	6.80	2.62	2.50	5.63	1.76	4.70	7.39	6.00	12.09	12.00	10.27	10.00	1391	
1392	Stockbridge Top Dressing Manure	7.50	5.09	5.00	3.52	2.26	3.70	5.78	4.00	9.48	6.00	5.87	6.00	1392	
1398	Sure Catch*	4.60	0.27	.....	3.83	3.03	.74	6.86	6.00	7.60	7.00	6.37	4.00	1398	

\* The manufacturers of 1398 claim that this sample does not fairly represent their goods, as they guarantee but four per cent. potash.

MAINE STATE COLLEGE,  
Orono, Me., March 11, 1896. }

